

19980303.ba v01_n949.bam.980303 v01_n950.bam.980303

>From ???@??? Tue Mar 03 02:44:15 1998
Message-Id: <199803030607.AAA13719@sco.theporch.com>
Date: Tue, 3 Mar 1998 00:07:21 CST
Subject: BOATANCHORS digest 1949

BOATANCHORS Digest 1949

Topics covered in this issue include:

- 1) Re: Dalton, Ga h'fest Nat'l revelation.
by berg stephen erik <z931086@corn.cso.niu.edu>
- 2) RE: 416A Tube?
by "Owens, Clarence" <owensc@nebeng.otis.com>
- 3) FS: Original Valiant I Manual
by David Ragsdale <doragsda@polymail.cpunix.calpoly.edu>
- 4) HT32 Schematic Needed
by ORA <mattj@oraus.com>
- 5) Re: BOATANCHORS digest 1946
by Jderm740 <Jderm740@aol.com>
- 6) Re: Looks as if we're getting the 1750m band!
by Jeffrey Herman <jeffreyh@hawaii.edu>
- 7) Re: Looks as if we're getting the 1750m band!
by Jerry Proc <jproc@idirect.com>
- 8) TBS
by FRANKK6NL <FRANKK6NL@aol.com>
- 9) Re: TBS owners sound off!!!
by "STEVE FINELLI" <navrad@enter.net>
- 10) FS: Collins S-Line
by "Gary Harmon" <gharmon@txdirect.net>
- 11) 1750 meter thread
by "Lawrence R. Ware" <lrware@pipeline.com>
- 12) Re: Dalton, Ga h'fest Nat'l revelation.
by "David M. Nance" <dmnance@roanoke.infi.net>
- 13) Re: TBS
by William Donzelli <william@ans.net>
- 14) WTB DX-40 and other stuff...
by "Alexander N. Gerli" <angerli@connix.com>
- 15) RE: NATIONAL REVELATION
by Mike Sewell <K0CRX@compuserve.com>
- 16) Re: Tube sub 6AK5/6CB6?
by Henry van Cleef <vancleef@netcom.com>
- 17) wtb, manuals and capacitors, rig FS
by "Canfield" <canfield@scci.net>
- 18) Re: TBS
by Jerry Proc <jproc@idirect.com>
- 19) WTB DX 35

- by kb5ww@juno.com (George T Folse)
- 20) HA-1 & Autronic
by Dick Dillman <ddillman@igc.apc.org>
 - 21) Re:wtb capacitors-me too
by Ethan <ethan@olywa.net>
 - 22) knobs needed
by Bob Roehrig <broehrig@admin.aurora.edu>
 - 23) NC-173 questions
by Bob Roehrig <broehrig@admin.aurora.edu>
 - 24) SA-46/ART-13A
by "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
 - 25) Mike&Key Hamfest.
by Kevin Gallagher <wire2liv@gomontana.com>
 - 26) Re: TBS
by Ho4bart <Ho4bart@aol.com>
 - 27) Re:wtb capacitors-me too
by "Robert Nickels" <ranickel@mwci.net>
 - 28) Flea market prizes/Schematics
by Ralph Parker <rparker@istar.ca>
 - 29) WTB: Central Electronics AP-1 Adapter
by Dick Dillman <ddillman@igc.apc.org>

Date: Mon, 2 Mar 1998 12:30:21 -0600 (CST)
From: berg stephen erik <z931086@corn.cso.niu.edu>
To: Richard Loken <richardlo@devax.admin.athabascau.ca>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Dalton, Ga h'fest Nat'l revelation.
Message-ID: <Pine.3.89.9803021256.A27097-01000000@corn.cso.niu.edu>

I had an early NCX-3, and it performed superbly. The only thing I would have liked to have been added would be RIT. But, the drifting rumor is not all bad. When I bought my NCX-5 at the Wheaton, Illinois hamfest a few years back, I was standing in line after a couple of fellows who were discussing the drifting "problem", I asked them to kindly step aside, and I bought it for \$140. It is quite stable, even for a rig of its vintage. I sold the NCX-3 back to the guy who sold it to me. He is very happy with it. Since I already had the NCX-5, I did not want to be guilty of hoarding, and he wanted it back.

73,

Steve WA9JML

Date: Mon, 02 Mar 1998 13:57:00 -0500
From: "Owens, Clarence" <owensc@nebeng.otis.com>
To: Boatanchors Post <boatanchors@theporch.com>
Subject: RE: 416A Tube?
Message-ID: <0EP7GG4S500GAR@mailman.otis.com>

The 416A is a microwave triode built by Western Electric for use in the Bell System microwave relay system. It will output about 1 watt at 4Ghz, as I recall. It was improved up through the "D" model, which had more power capability and carries a Beryllium (Spelling???) warning because of the ceramic rather than glass seal. My stash includes several of the "B" models, possibly working since they came from a telephone Co. employee... or maybe he just liked little gold thingees. Seems to me that Fair has been selling the cavities for them lately...

73,

Clare Owens N2RJB
owensc@nebeng.otis.com

From: Ken_Warren@beavton.k12.or.us
To: Old Tube Radios
Subject: 416A Tube?
Date: Monday, March 02, 1998 12:12PM

I found a handful of these tubes in my stash this weekend and wonder if anyone knows what they are used in? They look like a marriage of a power transistor and a tube, gold plated lighthouse triode of some kind?

Ken Warren K7RPX

Ken_Warren@beavton.k12.or.us
KenwK7RPX@worldnet.att.net

--
Beaverton School District
Beaverton, Oregon

Date: Mon, 2 Mar 1998 11:15:03 -0800 (PST)
From: David Ragsdale <doragsda@polymail.cpunix.calpoly.edu>
To: boatanchors@theporch.com
Subject: FS: Original Valiant I Manual
Message-ID: <199803021915.LAA01043@rubens.artisan.calpoly.edu>

Have an original Johnson Valiant I Manual. Includes 54 page op. manual,

Viking Valiant Information Bulletin #1, and the 40 page assembly manual. Plastic comb binding was damaged and was damaging the edges of the pages, so pages are in clear sheet protectors in a 3 ring binder. Pages are clean and untornd (except for that slight damage on the binding edge). Assembly manual has marks in the assembly step check-off spots.

\$35.00 plus \$5.00 shipping.

73

Dave

doragsda@polymail.calpoly.edu

Date: Mon, 2 Mar 1998 11:41:22 -0800
From: ORA <mattj@oraus.com>
To: "'boatanchors@theporch.com'" <boatanchors@theporch.com>
Subject: HT32 Schematic Needed
Message-ID: <01BD45D0.20538320@mattj.oraus.com>

Well I got a Halli HT32 this weekend and now need a schematic.
The radio is a true BA weighing in at 85 1/2 pounds!! It does not
just sit on my workbench, it OCCUPIES IT!!

Any help on getting a schematic would be appreciated.

PS The rig came with a two prong fused plug that when I opened it
had a folded piece of solder in place of the fuses!!! Guess the
color of the wire would have been unimportant to the previous user
as well (-0

Matt WB2VZS

Date: Mon, 2 Mar 1998 15:05:24 EST
From: Jderm740 <Jderm740@aol.com>
To: boatanchors@theporch.com
Cc: djhutch@concentric.net
Subject: Re: BOATANCHORS digest 1946
Message-ID: <520ee4a0.34fb1106@aol.com>

Hi Dave

The HQ180AX uses a 12P / 11Contact rotary sw. This gives you 11 Xtals and a vfo position. These are fed to a 6CW4 osc and relay that is turned on and off by a rear section of the same sw.

6 xtals are on the front face and 5 on the inside. Panel marking shows int. 1-5 and then the external six are in plain view. There is also a pos. marked VF0. This is the internal Osc.

I can send you a copy of the schematic if you don't have one.

To show you the physical layout, I would have to photo mine as I have no pictures in my manuals. I have two of these receivers but no layout drws.

Jack Jderm740@aol.com

Date: Mon, 2 Mar 1998 10:11:30 -1000
From: Jeffrey Herman <jeffreyh@hawaii.edu>
To: Jerry Proc <jproc@idirect.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Looks as if we're getting the 1750m band!
Message-ID: <Pine.GS0.3.95q.980302100921.14900D-100000@uhunix5>

On Mon, 2 Mar 1998, Jerry Proc wrote:

> Can I safely presume that this is an INTENTION or INITIATIVE and not a
> 'done' deal?
> If your post is mis-read, it might be propagated as 'news'.

I copied it from an ARRL news release. The NTIA now gives it to the FCC for perusal. 73, Jeff

Date: Mon, 02 Mar 1998 16:17:37 -0800
From: Jerry Proc <jproc@idirect.com>
To: Jeffrey Herman <jeffreyh@hawaii.edu>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Looks as if we're getting the 1750m band!
Message-ID: <34FB4C21.312@idirect.com>

Jeffrey Herman wrote:

>
> On Mon, 2 Mar 1998, Jerry Proc wrote:
> > Can I safely presume that this is an INTENTION or INITIATIVE and not a
> > 'done' deal?
> > If your post is mis-read, it might be propagated as 'news'.
>
> I copied it from an ARRL news release. The NTIA now gives it to the FCC
> for perusal. 73, Jeff

Hi Jeff,

Thanks for the update. That means it's not a done deal.

--

Regards,
Jerry Proc VE3FAB
jproc@idirect.com
HMCS HAIDA Naval Museum, Toronto Ont.

Date: Mon, 2 Mar 1998 16:36:15 EST
From: FRANKK6NL <FRANKK6NL@aol.com>
To: boatanchors@theporch.com (multiple recipients of list)
Subject: TBS
Message-ID: <8adeb66e.34fb2652@aol.com>

I was wondering how long it would be before the TBS appeared on this list. It was one of the most reliable transmitters that the Navy ever had and I wish I had a dime for every time I as officer of the deck used one in WW2. TBSs were used underway primarily for maneuvering signals replacing flag hoists. When you have a Task Group of over 25 ships spread over 10 miles or more flag hoists for maneuvering are not very good !!

And thank you Jerry for dispelling the "Talk Between Ships" jazz. Never heard that term used until long after the war. TBS was just what happened to come up in the serial designations of Navy Transmitters.

Re-- line of sight.. It was then Navy Communication Doctrine that any frequency above 30 Mhz was line of sight !! I remember listening on the TBS to ships in Pearl when our position was over 1000 miles south of there. So much for Doctrine.

The most interesting thing to me was the antenna used with the TBS. This was a ground plane having a verticle element and a shorted qtr wave stub in parallel with it and the system resonant at mid range. This maintained a quite good SWR over the entire frequency range.. For example above the center frequency the verticle element would show inductive reactance while the stub would be capacitative to balance things out. And vice versa on the low frequency side. Excellent broad band antenna.

Now that the TBS has been found maybe someone can find an MN. In addition to the TBS destroyers carried this bridge radio to exchange "confidences" between each other. I never saw or heard one-- I was not a DD OOD.

Frank

Date: Mon, 2 Mar 1998 16:47:25 -0500
From: "STEVE FINELLI" <navrad@enter.net>
To: <boatanchors@theporch.com>
Subject: Re: TBS owners sound off!!!
Message-ID: <199803022143.QAA04178@mail.enter.net>

I have a TBS-6 made by RCA. This unit was found with 4 other ones new in the crate. These were at the Baranosky's near Scranton, Pa. They acquired them from a surplus dealer they bought out about 4 years ago that was out on Long Island, NY. I purchased mine soon after they took possession of them.

Unfortunately, the building they were kept in for many years leaked. Two of them were in poor condition. The other two were still perfect. I purchased the two good ones (one for myself & one for a collector friend).

They came complete with remote controls, motor starters & motor-generators.

Of the other two TBS-6s, one was sent to the USS Massachusetts for a parts set to restore the ones they have on board & the last one was scrapped.

My TBS-6 sits in my office next to my desk & computer. It still has all of its inspection tags hanging on its front panel. It's a beautiful piece of equipment to look at.

The USS North Carolina is in need of TBS units & accessories. I believe they only have a single receiver & rack. I don't believe the receiver they have is complete so if anyone has a TBS set they can part with(donate) please contact them.

73,
Steve N3NNG
navrad@enter.net

Date: Mon, 2 Mar 1998 15:43:37 -0600
From: "Gary Harmon" <gharmon@txdirect.net>
To: "Boat Anchors List" <BOATANCHORS@LISTSERV.TEMPE.GOV>,
"Collins List" <COLLINS@LISTSERV.TEMPE.GOV>,
Subject: FS: Collins S-Line
Message-ID: <01bd4624\$42217da0\$fa4a8ed1@txdirect.net.txdirect.net>

This is a posting for a friend here in town without email capability.
CALL HIM NOT ME!!!!

75S3
32S3 with CW filter
516F2
Manuals

HE says condition is 9.99 out of 10. That would equate to CCA Excellent,
maybe better.

Contact Gene Swearingen at (210) 349-0020 for details and price.

CALL HIM NOT ME!!!!

=====
Gary H. Harmon, Jr., K5JWK
6302 Robin Forest
San Antonio, TX 78239-3218
(210) 657-1549
gharmon@txdirect.net
=====

Date: Mon, 02 Mar 1998 16:37:52 +0000
From: "Lawrence R. Ware" <lrware@pipeline.com>
To: boatanchors@sco.theporch.com
Cc: listown@jackatak.theporch.com
Subject: 1750 meter thread
Message-ID: <3.0.5.32.19980302163752.00822370@pop.pipeline.com>

Gentlemen,
While I can understand the allure of a new or perhaps different?
ham band for licensed amateurs to play in, ham band allocation issues
are of only limited interest to many of us. :-)

>From a fairly recent "JackAttack" listowner message:

<snip>
>Administration of spectrum just is NOT an appropriate topic for the
>BoatAnchors list, and given that a large number of list readers are
>from outside the US, given that many list readers are not hams,
<snip>

I would request that everyone really interested in this subject pick up

the ongoing threads over in the "lowfer" mailing list.
Sincerly,
-Larry

This message transmitted with 100% recycled electrons.
Your voltage may vary.

lrware@pipeline.com

Date: Mon, 02 Mar 1998 17:04:02 -0800
From: "David M. Nance" <dmnance@roanoke.infi.net>
To: polepeeg@aa4rm.radio.org
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Dalton, Ga h'fest Nat'l revelation.
Message-ID: <34FB5702.5F79@roanoke.infi.net>

BA x-actions hr wrote:

>
> Larry I was hawking a Eico 753 there yesterday & a fella named Kevin Wood
> came up & told me "You know that's a National NCX-3, don't you?"
>

Well, that's news to me. I remember our high school radio club in
Richmond, VA had an Eico 753 back in 1969, but I never equated it to the
NCX-3.

I do remember that the 753 was drifty. We used to joke that you really
didn't need a bandswitch. Just let it drift up to the next band!

On a more serious note, I do have a National question. I have an
NCX-500 which looks to be a slightly enhanced version of the NC-200,
which looks sorta like a 5 band version of the NCX-3. Is this correct?

73,
Dave - WB4SSE
Roanoke, VA

Date: Mon, 2 Mar 1998 17:35:48 -0500 (EST)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: TBS
Message-ID: <Pine.GS0.3.96.980302173435.8124L-100000@titan.purch.ans.net>

> Now that the TBS has been found maybe someone can find an MN. In addition to
> the TBS destroyers carried this bridge radio to exchange "confidences"
> between each other. I never saw or heard one-- I was not a DD 00D.

MNs are around, but certainly not common. Baranowsky's had some rusty
MN-2s, and I have a (much differing) MN-5.

William Donzelli
william@ans.net

Date: Mon, 02 Mar 1998 18:26:02 -0500
From: "Alexander N. Gerli" <angerli@connix.com>
To: Boatanchors Reflector <boatanchors@theporch.com>
Subject: WTB DX-40 and other stuff...
Message-ID: <34FB400A.F9232D0C@connix.com>

Hi, all...

WTB: Clean DX-40 (no holes or other violations) with manual; B&W T/R
Switch or equivalent (need three of those); Turner 22X mic.

73,

--
Sandy Gerli, AC1Y
500 Country Club Road
Avon, CT 06001-2406
(860) 675-5566
E-Mail: angerli@connix.com

Life Member: ARRL, QCWA
Charter Member: Collins Collectors Association

REAL radios use firebottles
The rest of 'em use them li'l chips...

"It's better to remain silent and be thought a fool,
Than to speak up and remove all doubt!" - Mark Twain

Date: Mon, 2 Mar 1998 18:57:56 -0500
From: Mike Sewell <K0CRX@compuserve.com>

To: BOATANCHORS <boatanchors@theporch.com>
Subject: RE: NATIONAL REVELATION
Message-ID: <199803021858_MC2-3549-A554@compuserve.com>

John,

I enjoy collecting boatanchors which are 'off the beaten path'. For me, EICOs fall into that category. I have several 753s and a bunch of EICO service bulletins and service records, several of which address the unit's inherent driftiness. I've never heard the term 'seven drift three', but, = it seem appropriate.

73, Mike
K 0 Collects Radios eXclusively/WPE0CFK

Date: Mon, 2 Mar 1998 17:18:12 -0700 (MST)
From: Henry van Cleef <vancleef@netcom.com>
To: ab@vuse.vanderbilt.edu
Cc: boatanchors@theporch.com
Subject: Re: Tube sub 6AK5/6CB6?
Message-ID: <199803030018.QAA14185@netcom8.netcom.com>

As A. B. Bonds discourses

>
> In an rx I recently received, the 6CB6 rf tube had been replaced with
> a 6AK5. This is a reasonable sub in that the pinout is more-or-less
> the same assuming that both cathode and suppressor grid are grounded,
> which seems the case in about 90% of the circuits I've seen. The 6AK5
> is good for much higher frequencies, since the 6CB6 is pretty well
> maxed out by about 40 MHz. However, this rx doesn't go above 31 MHz.
> The 6CB6 has rather higher transconductance (8000 vs 5000 for the
> 6AK5). Just wondering of this sub was made as a matter of
> convenience, or if there really is an advantage of the 6AK5 here.
>

My first question on this substitution is: Why?

My second question is why an HF receiver has a sharp cutoff pentode in the first stage?

I have to confess that I am from the old school of Fred Terman and Fritz Langford-Smith on the subject of RF preamplifiers in superheterodyne receivers. The primary function of an RF preamplifier is to boost low signals up to improve signal/noise ratio. The following mixer, depending on what it is, produces either noise, or

lots of noise. Overall receiver gain is provided by the IF stages. Most communications sets use two IF stages, which have wall-to-wall gain (and generally need tapped IF's to reduce gain), but which are used to give six tuned circuits rather than four (larger Hammarlunds use eight, with slightly overcoupled transformers so that speech is intelligible). Let's not forget that an RME-69, with 6D6's ($G_m=1600$) had plenty of gain. How much gain do you need in an RF preamp stage? Enough to overcome mixer noise. How much more gain do you need? None.

A very valuable function of the RF preamp on all but the weakest signals is not gain, but gain reduction (read:AVC control). This stage has very small signals, so the gross nonlinearities of remote cutoff pentodes have little effect on signal quality going into the mixer.

In the seven pin miniature series, a lowly 6BA6 (6-volt version of an AA-5/6 tube) has plenty of gain, and if you want a little more, and some good noise reduction, run it with E_{c2} of 70 volts, E_{bb} of 180, and an initial bias of -1.5 volts. Remember, that with -3 volts initial bias and 100 volts on the screen, the 6BA6 gives you a generous 4000 micromhos. If you want more, you can use a 6BZ6.

Both of these tubes in appropriate circuits will boost the signal enough to get something out of a 6BE6, which is the noise champion of mixer tubes.

The 6AK5 was 1943's answer to the wimpiness of 954/9001, and is a reasonable choice in a set where you want to run the RF preamp wide open at all times.

You haven't said what your receiver is, or what is in the mixer stage (which really is the key to RF preamp design). Unless the set is to be run wide open in front of the IF's (how is the AVC characteristic?) I'd be inclined to use 6BZ6 in place of 6CB6, and certainly not a 6AK5.

So far as 10 meter performance goes on 540 Khz-32 Mhz general coverage receivers, a major problem in the design has nothing to do with the tubes, but the use of a large tuning capacitor (and low inductance coils) to tune at 10 meters. 6-band sets are better than 4-band sets, because the tuning cap can be set up for 2:1 frequency coverage rather than 3:1. 6D6's did run out of steam below 10M in general coverage sets, but when looking at 7-pin miniatures, the performance issues are in stretching the front end C/L design that far, not in the tube performance.

--

=====
Hank van Cleef
=====

Date: Sat, 21 Mar 1998 21:17:12 -0600
From: "Canfield" <canfield@sccci.net>
To: <boatanchors@theporch.com>
Subject: wtb, manuals and capacitors, rig FS
Message-ID: <199803030218.VAA22643@gdi4.gdi.net>

Group;

Need manuals for Hallicrafters HT-18 and a S-53A, also a diagram for each.

Have a Hallicrafter SR-46, 6 meter rig for sale, \$75.00, clean and works.

Need the following capacitors:

.047	600vdc
12	150wvdc
.47	200 vdc
40	250 wvdc
40	450 wvdc
.10	400 vdc
.10	600vdc
.004	800vdc
.01	400vdc
.02	400vdc
.05	600vdc
.05	400vdc
.01	1000vdc
.01	600vdc
.02	600vdc

Have been looking all over for these, no luck. Hope someone can help.

73

Bill

reply to: canfield@sccci.net

Date: Mon, 02 Mar 1998 21:28:02 -0500
From: Jerry Proc <jproc@idirect.com>
To: FRANKK6NL@aol.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: TBS

Message-ID: <34FB6AB1.336E@idirect.com>

> The most interesting thing to me was the antenna used with the TBS.

To add to Frank's comments...

Feeding that antenna was an interesting transmission line. It was a concentric, 3/8 diameter, soft copper line with a characteristic impedance of 70 ohms. Maximum length for destroyer service was 120 feet, 80 feet for subs. To purge the line of moisture, the operator would open the regulator valve on a 2000 psi nitrogen bottle and pressurize the transmission line anywhere from 5 to 20 psi.

There were six different TBS antenna variants depending on the installation and the frequency band to be used. It can be summed up as follows:

		Destroyer	Submarine
		-----	-----
60 - 65	Mhz	44 "	41.875"
64.5 - 71.5	Mhz	38.375"	34.75"
71 - 80	MHz	33"	28.25"

Puzzling to me - Why would they use different antenna lengths for destroyer and sub considering that the differences ranged from 2 to 5 inches? Why not just 3 variants, depending on frequency range?

Until mid 1943, all fleet manoeuvring in the Royal Navy was conducted via Morse code. Once the TBS and 86M sets (British version of SCR 522) entered service, all further operations were conducted in voice. It certainly must have made things easier. This must be one of the first instances of the demise of CW :-)

Does anyone know if there were specific frequency assignments for specific tasks within the operating range of the TBS? It's sure easy to locate technical specs but finding out the many different ways in which these old sets were used is much more challenging.

--

Regards,
Jerry Proc VE3FAB jproc@idirect.com
Web: www3.sympatico.ca/hrc/haida
HMCS HAIDA Naval Museum, Toronto Ontario

Date: Mon, 2 Mar 1998 20:41:15 -0600
From: kb5www@juno.com (George T Folse)
To: boatanchors@sco.theporch.com
Cc: heath@listserv.tempe.gov
Subject: WTB DX 35
Message-ID: <19980302.204121.6758.0.kb5www@juno.com>

All,

I am still in the market for a good DX35 with no mods.
Thanks,

George Folse III KB5WWO kb5www@juno.com or kb5www@bellsouth.net
630 Dolhonde St.
Gretna,La. 70053
504-362-1896 ph/fax
Collector of Johnson,Heath,& Atwater Kent AMI#937

Date: Mon, 2 Mar 1998 19:20:01 -0800 (PST)
From: Dick Dillman <ddillman@igc.apc.org>
To: boatanchors@theporch.com
Subject: HA-1 & Autronic
Message-ID: <2.2.16.19980302191831.407fc022@pop.igc.org>

In the honored tradition of mentioning new acquisitions on the list I write to report the successful nabbing of a Hallicrafters HA-1 T.O. Keyer at the Livermore swapmeet on Sunday. I'd been looking for one of these for a while and found a sorry-looking example under a jumble of wire and with a paddle key of a type I'd never seen before. Money changed hands and scuttled off with my prize.

A robust application of Dow foaming bathroom cleaner brought the HA-1 up quite nicely. Actually, I find the clean-up of a basically good item of equipment to be one of the more satisfying parts of the fun.

Next to the paddle key. According to the names cast in the base it is an Autronic made by Electrophysics Corp. While it was new to me I've been informed by Neal of The Telegraph Office that these are quite common. He said most had a wrinkle finish which is at first what mine seemed to have. But closer examination revealed that what I thought was wrinkle paint was in fact decades of collected crud. I'd never seen anything quite like it but after a lot of elbow grease and Simichrome the crud is gone and the original polished cast aluminum base and chrome levers look great. So I went looking for a keyer and came home with a keyer and an interesting paddle.

Regarding the T.O. Keyer I have a manual on order but I wonder if a HA-1 expert on the list might be able to answer a couple of preliminary questions?

The sidetone in the speaker sounds... well... awful. It sounds like one of those neon bulb oscillators. Is that normal?

Also, what's the proper adjustment of the balance control on the rear apron?

Thanks,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Mon, 02 Mar 1998 20:04:20 -0800
From: Ethan <ethan@olywa.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re:wtb capacitors-me too
Message-ID: <34FB8144.29D2DFB7@olywa.net>

Think I'll jump on this capacitor needed bandwagon...
I need some
.047uf or .05uf
.1uf
.02uf - .025uf
axial leads in 600VDC or greater, preferably paper and oil (eg sprague "vitaminQ", or other manufacturer with part # that starts with "CP", or even plastic vitaminQs).

Ethan

Date: Mon, 2 Mar 1998 22:15:53 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@sco.theporch.com>
Subject: knobs needed
Message-ID: <Pine.ULT.3.96.980302221022.22495B-100000@admin.aurora.edu>

1) Still looking for 2 knobs for a S-76. These are the black jobs with about 40 tiny grooves around them and a metal skirt. Knobs look like those on a S-38 but with a metal skirt. No metal insert in front of knob like the later Halli knobs.

2) Picked up a nice NC-173 yesterday and need 2 of the gray, metal skirted jobs for it (for the tone & limiter pots). These have numerals around 270 degrees of rotation. Also need the 2 large tuning knobs and whatever was used for the bandswitch. The 2 large knobs I have look to be the right

"Nostalgia is a thing of the past"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Mon, 2 Mar 1998 22:22:37 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@sco.theporch.com>
Subject: NC-173 questions
Message-ID: <Pine.ULT.3.96.980302221557.22495C-100000@admin.aurora.edu>

Swapped for a pretty good NC-173 and am awaiting a manual. Meanwhile, of course, I have to play with it. It had been partially recapped and re-resistored. I found several more leaky caps and several out of tolerance resistors, which have all been replaced.

On the lower bands, it is pretty hot and the audio is terrific - probably the best I've heard out of a single 6V6 set (excepting my old Zenith console). But on the upper bands I don't get even much noise, although it appears to be correctly aligned. Is this to be expected? I haven't made any real measurements with a generator yet.

Any comments about this set are welcome.

"Nostalgia is a thing of the past"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Mon, 2 Mar 1998 23:25:52 -0500
From: "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>

To: BOATANCHORS <boatanchors@theporch.com>
Subject: SA-46/ART-13A
Message-ID: <199803022325_MC2-354B-645D@compuserve.com>

Group,

I forgot to mention that in the stuff uncovered over the weekend were several SA-46/ART-13A antenna disconnect knife switches. And a box of top covers for the T-47 in fairly decent condition. =

73, Robert W. Downs, WA5CAB
RWDowns_WA5CAB@compuserve.com
Houston, TX

Date: Mon, 02 Mar 1998 21:14:40 -0700
From: Kevin Gallagher <wire2liv@gomontana.com>
To: "boatanchors@sco.theporch.com" <boatanchors@sco.theporch.com>
Subject: Mike&Key Hamfest.
Message-ID: <34FB83AF.4B33DEC8@gomontana.com>

Hi all, I'm heading to the Mike and Key hamfest from south central Montana this weekend. I'm wondering if there are any BA places one should visit along the way, or in the Seattle vicinity. Would appreciate any and all suggestions! Thanks, Kevin P.S. Be traveling on I-90.

Date: Mon, 2 Mar 1998 23:33:45 EST
From: Ho4bart <Ho4bart@aol.com>
To: boatanchors@theporch.com
Subject: Re: TBS
Message-ID: <c8e28888.34fb882b@aol.com>

In a message dated 98-03-02 18:28:30 EST, FRANKK6NL@AOL.COM writes:

> And thank you Jerry for dispelling the "Talk Between Ships" jazz. Never heard
> that term used until long after the war . TBS was just what happened to
> come
> up in the serial designations of Navy Transmitters.

---nevertheless, the term was used in WW2 as Pacific combat accounts written by Naval officers testify. yes, TBS just happened to be the next

letters to be assigned, but something else was going on, too; consider that a transmitter designed to be primarily for destroyers was assigned letters TDE, so there may have been some element of choice too. (not saying this was the case in the TBS). Reference TDE: _Men and Volts at War_ GE's Contribution to the War Effort. Reference other nicknames i mentioned: _Aircraft Radio_ and _Advanced Aircraft Radio_ , Navy training books from WW2.

Re the MAN, wonder if this is the radio shown in a photo on shore of Iwo Jima. because of the photo angle it is very difficult to guess this. looks wider than a BC-654, and the folddown shelf isn't obvious.

vert antenna at one end.

regards, hue

Date: Mon, 2 Mar 1998 22:44:39 -0600

From: "Robert Nickels" <ranickel@mwci.net>

To: <ethan@olywa.net>, "Old Tube Radios" <boatanchors@theporch.com>

Subject: Re:wtb capacitors-me too

Message-ID: <025b01bd465f\$20bdf7c0\$5a8a3ece@default>

>Think I'll jump on this capacitor needed bandwagon...

Hi all,

A good source for capacitors is:

Bob Piekarz,

Bob's Antique Radios

111 E. 29th St.

LaGrange Park, IL 60526

(708) 352-0648

He has most common caps at good prices, typically \$6-8 for 25pcs of 630V mylars and \$1-2 each for common electrolytics. Bob is President of the Antique Radio Club of Illinois and I like to support his efforts to make parts available at reasonable prices. (No commission, just a satisfied customer!)

73, Bob W9RAN

Date: Mon, 02 Mar 1998 21:40:31 -0800

From: Ralph Parker <rparker@istar.ca>
To: boatanchors@theporch.com
Subject: Flea market prizes/Schematics
Message-ID: <3.0.5.16.19980302214031.213f2674@istar.ca>

Hi Gang:

First swap meet of the season in the Vancouver BC area yesterday. Lots of SS, not many BAs: SB-102, HW-*2s, Ranger, HRO-500, HQ-129-X, S-20R, SX-15, and my prizes: Hammarlund HX-50, Heath HX-20 and MR-1, Halli HA-1 keyer just like Dick D's, except I didn't get a paddle. Now I don't have to use my straight key on the next CX!

Don't want to spend \$60 on manuals just yet, so would like schematics for the HX-20, MR-1 and HA-1 if anyone can copy them for me for cheap.

Dick: hold down the dash paddle, adjust the 'balance' from one end to the other, set it in the middle of the "good" area. Works for me.

I built one (same circuit) years ago. Nice to hear it again, but my Super C-MOS is better.

Puyallup next weekend. Let the games begin!

73, Ralph, VE7XF

Date: Mon, 2 Mar 1998 21:27:20 -0800 (PST)
From: Dick Dillman <ddillman@igc.apc.org>
To: boatanchors@theporch.com, boatanchors@listserv.tempe.gov
Subject: WTB: Central Electronics AP-1 Adapter
Message-ID: <2.2.16.19980302212552.364752f8@pop.igc.org>

The manual for my Central Electronics Sideband Slicer arrived today and a preliminary reading of it appears to indicate that my life would be much easier if I had the AP-1 adapter that goes with it.

I've never seen an AP-1 but I deduce it must be a fairly small box, probably with one tube, an IF transformer and a 4-pin plug.

If you have such a device or know where one may be found please let me know.

Thanks,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

End of BOATANCHORS Digest 1949

>From ???@??? Wed Mar 04 02:23:39 1998
Message-Id: <199803040256.UAA04541@sco.theporch.com>
Date: Tue, 3 Mar 1998 20:56:29 CST
Subject: BOATANCHORS digest 1950

BOATANCHORS Digest 1950

Topics covered in this issue include:

- 1) Archives?
by "Roger A. McCarty" <rmccarty@earthlink.net>
- 2) Caps
by Raymond Cote <rcote@pixi.com>
- 3) Re:wtb capacitors-me too
by "Ragnar Otterstad" <otterstad@inet.uni2.dk>
- 4) Re: Russian BA collectors
by midshires@cix.co.uk (Andrew Emmerson)
- 5) Value of Collins 32V3?
by rlahlum@juno.com (Ross J Lahlum)
- 6) Chemical Staking Problems
by Brian Bjerkelund <brianbj@compuserve.com>
- 7) Re: wtb capacitors-me too
by Bill Riches <richesb@algorithms.com>
- 8) Re: HA-1 & Autronic
by Avery Comarow <AComarow@usnews.com>
- 9) Re: wtb capacitors-me too
by "Arden Allen" <aallen@sirius.com>
- 10) Re: Tube sub 6AK5/6CB6?
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 11) 1750m band
by GIBSON@ASTRA.LBL.GOV
- 12) Re: Chemical Staking Problems
by "Morton L. Denison" <mdenison@blazenet.net>
- 13) 1750m band
by GIBSON@ASTRA.LBL.GOV
- 14) FS: Books
by Lenox Carruth <carruth@swbell.net>
- 15) Thanks all Re: 6U8A gassy tube?
by "Claudio Marchesini" <cmar@datamat.it>
- 16) NC-173 Speaker?
by arc5@ix.netcom.com

- 17) NC-173 Speaker?
by Nick England <nick@cs.unc.edu>
- 18) D-104 & Collins
by David Douglas <DDouglas@Crossroads.com>
- 19) URM-25F RF Signal Generator FS
by Michael Crestohl <mc@shore.net>
- 20) F.S. - Boonton 250-A bridge
by "Al Parker" <awparker@worldnet.att.net>
- 21) Re: TBS
by Dave Prince <davprin@gil.com.au>
- 22) Re: [R-390] Aussie Military Radio /R-390A
by Dave Prince <davprin@gil.com.au>
- 23) Re: Tube sub 6AK5/6CB6?
by "Arden Allen" <aallen@sirius.com>
- 24) Re: HT32 Schematic Needed
by "Al Parker" <awparker@worldnet.att.net>
- 25) EICO Service Bulletins
by Mike Sewell <K0CRX@compuserve.com>
- 26) "Across the Ham Bands"
by "Robert Nickels" <ranickel@mwci.net>
- 27) Central Electronics AP-1 Adapter
by Dick Dillman <ddillman@igc.apc.org>

Date: Mon, 2 Mar 1998 23:28:15 -0800
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Archives?
Message-ID: <01bd4675\$ee027ba0\$9aa9d9cf@accurate-1>

Is there an Archive available someplace? I remember a thread regarding converting two wire AC line to three wire AC line and I would like to re-read the discussions.

Thanks in advance

Roger KD6CC

Date: Mon, 02 Mar 1998 22:28:55 -1000
From: Raymond Cote <rcote@pixi.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Caps
Message-ID: <34FBBF47.51BBBD5A@pixi.com>

There have been a few messages wanting caps lately. I have a file in the archives on capacitors and it can be downloaded or you can request it from me directly if the procedures for downloading are a mite vague.

Send me a message requesting the cap file and if what you want is not there, let me know the any other specifics besides the value and voltage that are pertinent, like 2" by 3", round can, twist lock or octal plug-in, or small square 1" by 1", etc. etc. and I will look through my other stuff that I did not include in the list.

Ray in Honolulu

Date: Tue, 3 Mar 1998 09:58:18 +0100
From: "Ragnar Otterstad" <otterstad@inet.uni2.dk>
To: <ethan@olywa.net>, "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re:wtb capacitors-me too
Message-ID: <199803030931.KAA25807@inet.uni2.dk>

You may find it at Farnell in UK, which is the biggest catalogue house in Europe . The owner company of Newark.

They have a home page and I believe you may even place order there now.

73 Rag OZ8RO

> Think I'll jump on this capacitor needed bandwagon...
> I need some
> .047uf or .05uf
> .1uf
> .02uf - .025uf
> axial leads in 600VDC or greater, preferably paper and oil (eg sprague
> "vitaminQ", or other manufacturer with part # that starts with "CP", or
> even plastic vitaminQs).
>
> Ethan

Date: Tue, 3 Mar 1998 12:13 +0000 (GMT Standard Time)
From: midshires@cix.co.uk (Andrew Emmerson)
To: boatanchors@theporch.com
Cc: midshires@cix.co.uk
Subject: Re: Russian BA collectors
Message-ID: <memo.19980303121329.53453G@midshires.compulink.co.uk>

It would be very useful to hook into the Russian BA scene -- if there is one, but I'm not sure there is. There is a Russian equivalent of Usenet called Relcom and a group within that called either relcom.ham.radio or relcom.radio.ham (I can't check it out while I am in message compose mode). However, the traffic in it is mainly contest news or people selling packet radio equipment, and my postings offering good money for vintage equipment have had no useful response at all.

This may be something to do with the limited access to the Internet in the former Soviet Union, or else they may have destroyed all the old gear as part of a cultural purge. If they have, it's a great shame. By the way, 99 per cent of the traffic is in Russian and using a cyrillic variant of ASCII called (I think) K018. You have to reset the code page of your PC... or something. I don't speak Russian, so I got a bilingual person to write and read the traffic for me.

I believe the main radio periodical in Russia ceased publication when the chaos set in, so that's another avenue closed to us. But if someone has some contacts, please share them with us. I am desperate to obtain a black-and-white era TV camera from Russia on behalf of a museum here in Britain, and I'd love to make some contacts over there.

73,
Andy G8PTH.

Andrew Emmerson/Midshires Mediatech/405 Alive
tel: 07000-405625, international +44 1604-844130
fax: 01604-821647, international +44 1604-821647

Date: Tue, 03 Mar 1998 07:37:54 EST
From: rlahlum@juno.com (Ross J Lahlum)
To: boatanchors@theporch.com
Subject: Value of Collins 32V3?
Message-ID: <19971126.044800.7511.0.rlahlum@juno.com>

I'm considering selling my Collins 32V-3. It's in excellent condition. Can anyone tell me what the current price range is?

Thanks & 73,
Ross KB9JJR
rlahlum@juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>

Or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 3 Mar 1998 08:32:16 -0500
From: Brian Bjerkelund <brianbj@compuserve.com>
To: BOATANCHORS <boatanchors@theporch.com>
Subject: Chemical Staking Problems
Message-ID: <199803030832_MC2-3553-880C@compuserve.com>

Hi Gang:

Have a problem with my URM25-D: At some point in it's lifetime, someone has sealed the alignment slugs on the turret. The trimmers are fine, but the slugs have been locked with a shiny, violet-colored material.

I've tried nail-polish remover, alcohol, and a couple of other solvents, but nothing seems to cut it. Has anyone run into this stuff, and is there any hope??

Brian, K7AIS
brianbj@compuserve.com

Date: Tue, 03 Mar 1998 08:34:33 -0500
From: Bill Riches <richesb@algorithms.com>
To: ethan@olywa.net
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: wtb capacitors-me too
Message-ID: <34FC06E9.7296@algorithms.com>

Ethan wrote:

>
> Think I'll jump on this capacitor needed bandwagon...
> I need some
> .047uf or .05uf
> .1uf
> .02uf - .025uf
> axial leads in 600VDC or greater, preferably paper and oil (eg sprague
> "vitaminQ", or other manufacturer with part # that starts with "CP", or
> even plastic vitaminQs).
>
> Ethan
Call Mouser Electronics and get a catalog - they have Sprague -

800-346-6873.

73,

Bill Riches, WA2DVU
Cape May, NJ

Date: Tue, 3 Mar 1998 09:10:57 -0600 (CST)
From: Avery Comarow <AComarow@usnews.com>
To: <ddillman@igc.apc.org>
Cc: boatanchors@theporch.com
Subject: Re: HA-1 & Autronic
Message-ID: <2.2.16.19980303100718.18c76e78@pop3.usnews.com>

At 10:47 PM 3/2/98 -0500, you wrote:

>Regarding the T.O. Keyer I have a manual on order but I wonder if a HA-1
>expert on the list might be able to answer a couple of preliminary questions?
>
>The sidetone in the speaker sounds... well... awful. It sounds like one of
>those neon bulb oscillators. Is that normal?

Yup. The front-panel neon pilot is part of a relaxation oscillator from
whence cometh your sidetone.

>Also, what's the proper adjustment of the balance control on the rear apron?

The manual will have the info you need.

I love my T0 keyer, too. Nice find!

Best, Avery W40GK

Date: Tue, 3 Mar 1998 07:24:11 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>, <richesb@algorithms.com>
Subject: Re: wtb capacitors-me too
Message-ID: <199803031523.HAA05815@mail3.sirius.com>

>preferably paper and oil.....

Yuk! Today's wrap and epoxy end fill plastic film capacitors are next to impossible to beat. I've salvaged these capacitors from equipment built in the early 70's and later. Have yet to find a leaker.

Vitamin Q's are now as rare as hen's teeth. Any chicken ranchers out there?

Give your loved ones Gummy Bears.
Arden Allen KB6NAX Vallejo, CA aallen@sirius.com

Date: 03 Mar 1998 09:36:36 -0600
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
To: boatanchors@sco.theporch.com
Subject: Re: Tube sub 6AK5/6CB6?
Message-ID: <1998Mar03.093637-0600@spike.vuse.vanderbilt.edu>

In <199803030018.QAA14185@netcom8.netcom.com>, Henry van Cleef wrote:

>As A. B. Bonds discourses

>>

>> In an rx I recently received, the 6CB6 rf tube had been replaced with
>> a 6AK5.

>>

>My first question on this substitution is: Why?

>

Known only to the DPO (Dreaded Previous Owner).

>My second question is why an HF receiver has a sharp cutoff pentode
>in the first stage?

>

>I have to confess that I am from the old school of Fred Terman and
>Fritz Langford-Smith on the subject of RF preamplifiers in
>superheterodyne receivers. The primary function of an RF preamplifier
>is to boost low signals up to improve signal/noise ratio.

>

>A very valuable function of the RF preamp on all but the weakest
>signals is not gain, but gain reduction (read:AVC control). This
>stage has very small signals, so the gross nonlinearities of remote
>cutoff pentodes have little effect on signal quality going into the
>mixer.

>

>You haven't said what your receiver is, or what is in the mixer stage
>(which really is the key to RF preamp design). Unless the set is to
>be run wide open in front of the IF's (how is the AVC characteristic?)
>I'd be inclined to use 6BZ6 in place of 6CB6, and certainly not a
>6AK5.

The set is a Halli S-76. To address some of your points, it is double conversion, using a 6AU6 as first mixer, 6BA6 as first IF amp, 6BE6 (there it is... at least it's after some gain) as second mixer and 6BA6 as second IF amp. The RF tube (6CB6) has its cathode run through the manual RF gain control, and AVC is applied at the grid through a 1 meg resistor. Yes, it is a sharp cutoff pentode. Go figure. Incidentally, the 6CB6 is also the lead-off amplifier in the much-vaunted SX-88.

>

>So far as 10 meter performance goes on 540 Khz-32 Mhz general coverage
>receivers, a major problem in the design has nothing to do with the
>tubes, but the use of a large tuning capacitor (and low inductance
>coils) to tune at 10 meters. 6-band sets are better than 4-band sets,
>because the tuning cap can be set up for 2:1 frequency coverage rather
>than 3:1.

This is a four-band set. The ten-meter performance is iffy at best.

As always, thanks for your wisdom and insight, Hank.

73 A. B. Bonds

Date: Tue, 3 Mar 1998 7:56:04 -0800
From: GIBSON@ASTRA.LBL.GOV
To: boatanchors@theporch.com
Subject: 1750m band
Message-ID: <980303075604.27e00f58@ASTRA.LBL.GOV>

160-190kcs has always been available. It is a license free band. No call signs allowed but people use their initials. Max DC power in is 1 watt. Max antenna length 50 feet.

Reliable CW range about 100 miles. AM/SSB about 10 miles. I have an article from Communications World which uses a receiver bandwidth of 10 cps and a computer to send and receive - you type your message into memory. The computer transmits and receives at about 1 word a minute. You send a message one day and get your reply the next!.Because of the improved sig/noise with 10cps bandwidth, the range now becomes about 1000 miles.

John Gibson.

Date: Tue, 03 Mar 1998 11:11:24 -0500
From: "Morton L. Denison" <mdenison@blazenet.net>

To: brianbj@compuserve.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Chemical Staking Problems
Message-ID: <34FC2BAC.7021E2A6@blazenet.net>

Brian,

Mine was like that, too. I believe they all were. Fortunately on mine the stuff was pretty brittle. I turned the slugs and the stuff just fractured loose.

Brian Bjerkelund wrote:

> Hi Gang:
>
> Have a problem with my URM25-D: At some point in it's lifetime,
> someone
> has sealed the alignment slugs on the turret. The trimmers are fine,
> but
> the slugs have been locked with a shiny, violet-colored material.
>
> I've tried nail-polish remover, alcohol, and a couple of other
> solvents,
> but nothing seems to cut it. Has anyone run into this stuff, and is
> there
> any hope??
>
> Brian, K7AIS
> brianbj@compuserve.com

Date: Tue, 3 Mar 1998 8:10:59 -0800
From: GIBSON@ASTRA.LBL.GOV
To: boatanchors@theporch.com
Subject: 1750m band
Message-ID: <980303081059.27e00f58@ASTRA.LBL.GOV>

In my previous note I over simplified. It should read that your computer keys the QRP transmitter and decodes the output of the receiver. Both transmitting and receiving stations are synchronised to WWB for frequency cohesive (phase synchronous) reception.

J.G.

Date: Tue, 03 Mar 1998 11:39:04 -0600
From: Lenox Carruth <carruth@swbell.net>
To: "Boat Anchors List (to submit a listing)" <boatanchors@sco.theporch.com>,
BA Swap List <baswaplist@foothill.net>
Subject: FS: Books
Message-ID: <34FC4038.1C36@swbell.net>

"Command Sets" by the editors of CQ, 1957, \$15
"Surplus Radio Conversion Manual" Vol. 1, Evenson & Beach, 1948, \$15
"Surplus Radio Conversion Manual" Vol. 2, Evenson & Beach, 1948, \$15

Add \$4 shipping for the first book and \$1 for each additional book if
ordering more than one. Condition is very good although cover is fading
and coming loose on Vol. 2.

--

Lenox

Lenox Carruth, Jr. carruth@swbell.net
Dallas, Texas
Collector of WW-II Communications Equipment and Memorabilia

Wanted: TCS-14 Transmitter, TBX, BD-71, Sextant

Date: Tue, 3 Mar 1998 18:52:09 +0100
From: "Claudio Marchesini" <cmar@datamat.it>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Thanks all Re: 6U8A gassy tube?
Message-ID: <01bd46cd\$16881920\$260b020a@cmar.datamat.it>

Folks,
I'd like to say thanks to all who offered suggestions for my question.

Best Regards to the bottleanchors

Claudio
BA collector in Italy

Date: Tue, 3 Mar 1998 12:00:32 -0600 (CST)
From: arc5@ix.netcom.com
To: boatanchors@sco.theporch.com
Subject: NC-173 Speaker?
Message-ID: <1998331159553778@>

What's the proper matching speaker for a National NC-173?
Thanks,
Dave AB5S

Date: Tue, 3 Mar 1998 13:16:50 -0500 (EST)
From: Nick England <nick@cs.unc.edu>
To: arc5@ix.netcom.com, boatanchors@theporch.com
Subject: NC-173 Speaker?
Message-ID: <199803031816.NAA24891@altair.cs.unc.edu>

I maintain a list of matching speakers at
<http://www.cs.unc.edu/~nick/speakers.htm>

Please send updates or pointers to pictures to nick@cs.unc.edu

According to my list, the matching speaker for the NC-173 is the
NC-173TS and you can find a picture at:
<http://home.communique.net/~kk5fe/173.htm>

73 & Have Fun,
Nick England KD4CPL nick@cs.unc.edu Univ. Of North Carolina
<http://www.cs.unc.edu/~nick/hobbies.html> Chapel Hill NC

Date: Tue, 3 Mar 1998 13:50:32 -0600
From: David Douglas <DDouglas@Crossroads.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: D-104 & Collins
Message-ID: <314ACE6CA104D111993000805FE6BC2621C666@CSIRAS.Crossroads.com>

I have an older amplified D-104 microphone and I have a couple of
questions:

1. There is an R-E switch in the base of the D-104. What does that do?

2. What are the connections for the D-104 to a Collins rig. The D-104 wiring harness has a RED, BLACK, WHITE and shield. It looks like RED/BLACK are PTT and white is audio. What should the shield go to, BLACK?

3. Do all D-104's have a high frequency response? Any advice or comments using D-104's with Collins equipment?

Thanks,
David

David M. Douglas
ddouglas@crossroads.com
Phone (512)794-2737

Fax(512)349-0304

Crossroads Systems, Inc.
Austin, TX & San Jose, CA
"Providing paths to connectivity"

Date: Tue, 3 Mar 1998 16:27:24 -0500 (EST)
From: Michael Crestohl <mc@shore.net>
To: boatanchors@theporch.com
Subject: URM-25F RF Signal Generator FS
Message-ID: <199803032127.QAA23348@northshore.shore.net>

Hello Gang:

I have a URM-25F RF signal generator that I have no use for. It is unfortunately missing the cover and the pads contained therein. I believe Fair Radio Sales has these pads. The case is a bit beat up but it is otherwise complete. It covers from 600 KC to 600 MC and is also referred to as the SG-103.

Anyone interested for \$75.00 plus ups. Its heavy!

If interested please reply by e-mail.

73,

Michael Crestohl, W1RC
mc@shore.net

Date: Tue, 3 Mar 1998 15:44:46 -0800
From: "Al Parker" <awparker@worldnet.att.net>
To: "BAList-porch" <BOATANCHORS@theporch.com>
Subject: F.S. - Boonton 250-A bridge
Message-ID: <19980304002342.AAA24831@awphome>

Recently, Hank Van Cleef mentioned using his Boonton 250-A bridge in analyzing a couple of Hammarlund coils. I've enjoyed using mine as well, but, unfortunately I must reduce volume & mass in preparation for an upcoming retirement move to North Carolina, from SF Bay area. Hate to part with it, but lack of use, and cost of transportation (first move I've ever had to pay for myself) seem to prevail.

A fine quality BA test gear item, measures resistance & reactance from 0.5 to 250 mc. Very nice shape, one spinner knob has been nicely repaired, otherwise appears to be all original, good shape cosmetically and operational, except for a 1/2" hole in the top, for ???. I haven't used it much in last 3 years, but did quite a bit b4 that. .
\$95 with original manual (also in nice condx), plus shipping from SF Bay area, about 42 lbs, zip 94568 or will drive up to 50 miles to meet buyer.

73, Al, W8UT
Dublin, CA 94568

Date: Wed, 04 Mar 1998 09:09:40 +1000
From: Dave Prince <davprin@gil.com.au>
To: Ho4bart@aol.com
Cc: boatanchors@sco.theporch.com
Subject: Re: TBS
Message-ID: <34FC8DB4.19B3@gil.com.au>

Ho4bart wrote:

>
> In a message dated 98-03-02 18:28:30 EST, FRANKK6NL@AOL.COM writes:
>
> > And thank you Jerry for dispelling the "Talk Between Ships" jazz. Never
> heard
> > that term used until long after the war . TBS was just what happened to
> > come
> > up in the serial designations of Navy Transmitters.
>
> ---nevertheless, the term was used in WW2 as Pacific combat accounts
> written by Naval officers testify. yes, TBS just happened to be the next
> letters to be assigned, but something else was going on, too; consider
> that a transmitter designed to be primarily for destroyers was assigned
> letters TDE, so there may have been some element of choice too. (not

> saying this was the case in the TBS).

G'day Hue and group,

A good friend of mine was a WW2 Naval wireless operator in the Royal Australian Navy. He has often asked me if I have yet come up with a 'Talk Between Ships' set. He was demobbed at war's end so did not remain in the Navy. I have asked why they called them by that name and his reply was 'that's what we knew them as'.

Cheers

--

Dave Prince VK4KDP
davprin@gil.com.au
Brisbane, Queensland, Australia

Collector and restorer of Military Radio and Signalling Equipment.

Date: Wed, 04 Mar 1998 09:36:38 +1000
From: Dave Prince <davprin@gil.com.au>
To: Cal Eustaquio <ceustaqu@hertz.ee.calpoly.edu>
Cc: boatanchors@sco.theporch.com
Subject: Re: [R-390] Aussie Military Radio /R-390A
Message-ID: <34FC9406.3751@gil.com.au>

Cal Eustaquio wrote:

>
> Hi Dave:
> I was wondering if the RAN used R-390A's before (my guess is yes). I
> remember back in the mid-80's some of the Aussie sailors use to come over
> to SSC/NTC Annex in San Diego, CA for some tech assistance with the AIMS
> MK XII IFF. I believe they use to use lots of US equipment. I think they
> may have liked our FFG-7 boats too. Cal (ex-ET1, USN-R).

G'day Cal and Group,

I am led to believe that the R.A.N. certainly did use R-390A's. I have also been told that the RAAF also used them. Yesterday when I was cleaning up my the front panel of my 1962 Amelco, I took note of the Mod Record Plate. This is a plate titled 'Field Change Record Compiled by L.B.N.S. (What does L.B.N.S. stand for?) I presume this is a U.S. plate. All the mods except the last one are dated 6/22/66. I would assume that these mods were performed by U.S. personnel as in Australia we use a different date format. For example, the above date would be written 22/6/66. The last entry was 11/9/72 but of course

this could still be US 9th of November or Australian 11th September. So, I wonder how mine came to be in Australia?

In the early stages of WW2, most of the gear was sourced from or based on the British. However, later in the war and after, we used a lot of U.S. gear.

Cheers all,

--

Dave Prince VK4KDP
davprin@gil.com.au
Brisbane, Queensland, Australia

Collector and restorer of Military Radio and Signalling Equipment.

Date: Tue, 3 Mar 1998 16:52:46 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>,
"Arden Allen" <aallen@calimetrics.com>, <ab@vuse.vanderbilt.edu>
Subject: Re: Tube sub 6AK5/6CB6?
Message-ID: <199803040105.RAA25327@calimetrics.com>

>.....Yes, it is a sharp cutoff pentode. Go figure.
Incidentally, the 6CB6 is also the lead-off amplifier in the
much-vaunted SX-88.

This can be summed up fairly simply. First you must ask the question, how much signal volts will there be at the RF amplifier grid when the receiver is receiving a maximum designed for signal? The next question is, what will be the AGC bus supplied bias voltage be at the grid of the RF amplifier under the maximum designed for signal condition? The third question is, will the sum of the signal peak voltage and bias voltage reach the tube cutoff point?

Ok now, the hypothetical poorly designed receiver cuts off the RF amp under strong signal conditions, so what happens? The RF amp is now the dominant gain controlling element; a very small increase in bias voltage will drastically reduce receiver gain. Is this bad? If you understand how a class B amplifier has no problem with linearity because of the "flywheel" affect of the tank circuit you would think "where's the problem?" Good question. Listening tests will show no apparent increase in distortion. But.....now the S meter doesn't move much anymore do to the radical increase in AGC loop gain.

The receiver does not now make an AGC voltage which is a nice logarithmic analog of the signal voltage. All of those glowing 20, 30 and 40 DB over S9 signal reports are all squished together within two needle widths on the S meter scale. How tacky.

But the receiver sounds fine and it's got GREAT AGC. What the heck, I'll just tell everybody they're 60 over 9, they won't complain about a signal report like that!

Well, there is another problem. There is a finite increase in the RF amps' ability to produce distortion under these conditions and that slight increase shows up as increased noise floor and unexplainable loss in intelligibility caused by intermodulation distortion between the multiple signals that appear at the grid of an RF amplifier. Not the ideal receiver design.

In summary, a sharp cutoff pentode will make a perfectly acceptable RF amp if it plays a limited role as a gain controlling element and signal levels are not expected to be huge. With designers wanting to get more performance per tube count an RF amp that can do multiple tasks equally well is highly desirable. A remote cutoff pentode (6SK7, 6SG7, 6BA6,....) or even a designed for TV IF semiremote cutoff pentode (6BZ6, 6DC6, 6EH7,.....) will give you more function per tube socket.

Give your loved ones Gummy Bears
Arden Allen KB6NAX aallen@sirius.com

Date: Tue, 3 Mar 1998 16:44:59 -0800
From: "Al Parker" <awparker@worldnet.att.net>
To: <mattj@oraus.com>
Cc: "BAList-porch" <BOATANCHORS@theporch.com>
Subject: Re: HT32 Schematic Needed
Message-ID: <19980304011924.AAA28202@awphome>

>Date: Mon, 2 Mar 1998 11:41:22 Matt, WB2VZS asked:Any help on getting
a schematic would >be appreciated.

Matt,
welcome to the "club". This is more than what you asked, but I recently wrote what turned out to be a private msg, but was intended to go to this group, so it's copied below. I can get a copy of my HT32 mk1 schem. for you. Looks like the A is the same, the B has differences. I hope my remarks reflect my pleasure with this "heavy metal". The SX-101 weighs nearly as much, a real table full. When I get the matching amp, HT-33 (115

lbs), done, I'll need to do structural analysis on the table.

about 2/2/98, Brian, K7AIS, and Jim - K4CCF wrote on a topic close to me: since writing this, I have completed the work, and have been using the pair on the air with good reports.

I picked up 2 HT-32s recently, both needing work. The first, a MK-1, had a bad xfrmr, but the fellow I got them from had bought a new Peter Dahl unit (abt \$150 he said). I got a junker SX-101 from him also, to replace the bad xmr in my 101. I've been working slowly on the HT32 about 2 weeks, got the xfrmr installed, thought the choke was bad too, but turned out my stupid wiring mistake - half wave rectifier in HV line doesn't do well. Had a weak tube in the line from the SB gen. to the finals (don't remember which one), plus needed peaking everything along the way to get good drive to the finals. Lots of things to tweak in this rig. I've done most all the RF, just need to check the audio & SB balance stuff now.

I don't like the lack of a plate current meter. Jim's note on keeping a chart of band settings, and doing quick tune-up is essential. I think the manual even mentions a chart. I didn't get the output meter hooked up right at first, and had trouble getting a quick tune-up without an external (trusted) output meter, which indicates 100w out on 15-80, abt 60 on 10m. Without a plate meter, you don't really know what's going in, or the tube operation.

I pulled the bottom cover off of the SB Gen., with a jillion screws. The whole thing would come out fairly easy, as it has plugs. (nice to have an offset screwdriver) If there's ever any problem in it, it's very deep and narrow to get to the components around the tube sockets.

That's just a few thoughts/observations, maybe nothing new or astute, but it sure is a lot of enjoyment - it's an interesting and educational experience with a new "toy" - that's why I like BA's. Now the other one, an HT-32A, should go quickly. It's dirtier, but with the gold-colored chassis, should look real good. But first, maybe the SP-44 will get all its capacitors replaced, and there's an HT-33 amp which needs some attention. I listen to the SX-101 (mk3) while working.

73, Al, W8UT w8ut@juno.com or awparker@worldnet.att.com
Dublin, CA

Date: Tue, 3 Mar 1998 21:39:49 -0500
From: Mike Sewell <K0CRX@compuserve.com>
To: BOATANCHORS <boatanchors@theporch.com>
Cc: Ed <n4xy@bellsouth.net>, Mike <mtallent@concentric.net>
Subject: EICO Service Bulletins

Message-ID: <199803032140_MC2-3569-1B4D@compuserve.com>

In my previous post regarding the EICO 753, I mentioned that I have some EICO service bulletins and a couple hand-written notes written by EICO service technicians pertaining to this rig. Several list members expressed an interest in copies of this info. I'm glad to oblige, but, I'll let everyone know what's available and get a list of takers before I go on a copy-making expedition.

For \$7.00 each shipped (CONUS), I will assemble a packet of high-quality photocopies of the following documents.

- * A two-page typed letter from a 753 owner to EICO regarding insufficient carrier and unwanted sideband suppression and excessive VFO drift. The letter contains marginal notes from EICO addressing these issues.

- * EICO Service Bulletin No. ESB 74. (3 pages) This bulletin addresses several assembly manual errors, unstable VOX operation, receiver distortion, low output power, and VFO drift (vacuum tube VFO).

- * EICO Service Bulletin No. ESB 113A. (15 pages) This bulletin addresses several assembly manual errors, VFO drift (in the replacement solid state unit), and various other items. There's also some interesting verbiage on how EICO measured drift and experimenting with temperature compensating capacitors, updated resistance/voltage chart, and other cool stuff.

- * EICO 753-VFO MODIFICATION INSTRUCTIONS. This is a 5-page document, with parts list, describing how to convert the way drift vacuum tube VFO to the new and improved less drift solid state version. A separate pictorial showing mechanical layouts and the schematic diagram for the solid state VFO is included.

All BAers interested in obtaining one of these fact-filled little modules of rare and useful data should contact me via private email (don't clutter BOATANCHORS with your requests). I'll wait about a week for requests to arrive and then I'll make copies ONCE and fill orders. =

Send payment to:

Mike Sewell K0CRX
35795 Oriole Ave.
Lindstrom, MN 55045

73, Mike
K 0 Collects Radios eXclusively/WPE0CFK

Date: Tue, 3 Mar 1998 20:43:09 -0600
From: "Robert Nickels" <ranickel@mwci.net>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: "Across the Ham Bands"
Message-ID: <015701bd4717\$c56cbe60\$3c8a3ece@default>

Hi All,

Several recent posts have commented on the pivotal role Popular Electronics played in our "formative years". Aside from the great construction projects (which were mostly over my head or beyond my means), and the monthly exploits of my techno-heroes "Carl and Jerry", my next favorite part was "On the Ham Bands" by Herb Brier W9EGQ. From this column I learned many important details that would shape my ham career, including how cool it looked to have a big pile of radios in your shack and catchy new words like "skyhook" and "hearing aid".

The proud owner of a Knight Kit Span Master, I would have loved to have read the following quote which was published in the Oct. 1960 column, but it would be another year before the first issue of Pop'Tronics came into my possession:

"Ray Mote, Jr. 1110 E. Caeser, Kingsville Texas, who expects to get his Novice license soon, says you can tune in sideband signals on the Knight-Kit "Ocean Hopper" and similar regenerative receivers by advancing the regeneration control to beyond the oscillation point - the same setting used for code reception - and very carefully tuning in the signal. (Ed. note: emphasis on *very*!) At one critical setting, the received voice will quit sounding like "Donald Duck" and become perfectly readable"....

Could those anxiously-awaited call letters have been KN5FKT? Could this wizard of the steady tuning hand be the same Ray Mote who frequents this list and still offers sage advice and assistance?

You never know what you'll learn from those musty old magazines!

73, Bob W9RAN

PS: Ray - did you have to hold your breath to keep the 'Hopper tuned-in??

Date: Tue, 3 Mar 1998 18:18:18 -0800 (PST)
From: Dick Dillman <ddillman@igc.apc.org>
To: wallace@world.std.com, djhutch@concentric.net, boatanchors@theporch.com
Subject: Central Eelectronics AP-1 Adapter
Message-ID: <2.2.16.19980303181651.3a0763a6@pop.igc.org>

I couple of people have asked me about the function of the Central Eelectronics AP-1 adapter that's associated with the Sideband Slicer, thus a reply to the list seemed in order. I posted a message here earlier asking for an AP-1 but so far none have emerged.

But I'm about as far away from being an expert on this unit as you can get. Never having seen one I'm going by what I can find in the manual. Actually, I'm hoping that the *real* AP-1 experts will reveal themselves and make everything clear!

According to the manual, the AP-1 is an outboard IF stage that plugs into the Sideband Slicer. I was originally advised that the AP-1 would be needed only if the intention was to use the Sideband Slicer with a "non-standard" IF. That is to say, anything outside the range of 400 - 500Kc.

The manual proposes two primary means of connection to the associated receiver - Method A without the AP-1 and Method B with the AP-1.

Method A requires that the detector be disabled and states in relevant part... "This method disconnects the normal 2nd detector entirely and as a result the AVC, S meter and noise limiter will not function on the average receiver... If it is desired to retain these receiver functions, the use of the model AP-1 plug-in adapter is recommended." But later mention is made that receivers "with separate amplified AVC systems and IF type noise silencers will retian these functions."

Further, the instructions for connecting the Sideband Slicer to the HRO-50 (the receiver I intend to use it with) mention only the use of the AP-1.

However Methods C and D are also shown in which a signal is taken from the grid of the last IF stage and applied to the IF in jack of the Sideband Slicer. These seem quite straightforward.

So. Is there any sage advice about the best way to make Model B Sideband

Slicer with a BA radio?

Regards,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

End of BOATANCHORS Digest 1950
